

**PROTEOME-WIDE MAPPING OF POST-TRANSLATIONAL
MODIFICATIONS USING ENDONUCLEASES**

ABSTRACT OF THE DISCLOSURE

The present invention provides novel endonucleases that site-specifically cleave a post-translationally modified polypeptide at a site of post-translational modification. The present invention further provides methods making and using the endonucleases, including methods of mapping post-translational modifications in the human genome.

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